

STATUS

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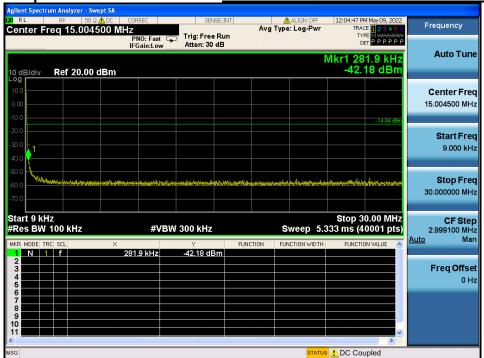
Report No.: DRTFCC2205-0102

Reference for limit

Middle Channel & Modulation : GFSK



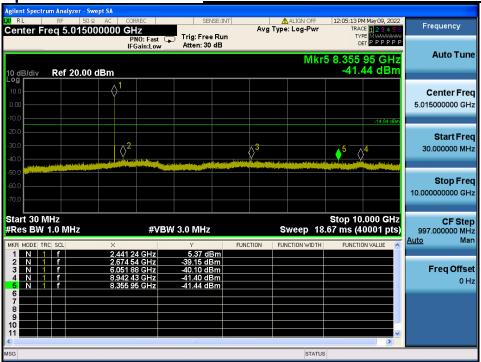
Conducted Spurious Emissions <u>Middle Channel & Modulation : GFSK</u>

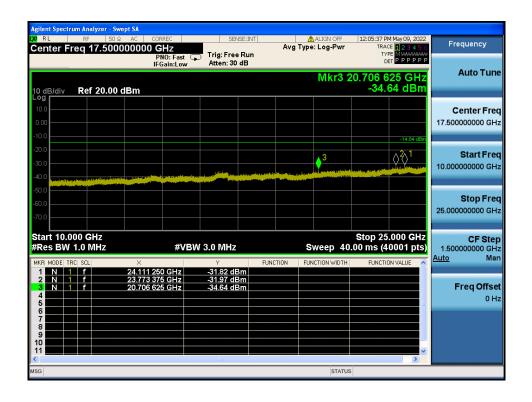


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Conducted Spurious Emissions <u>Middle Channel & Modulation : GFSK</u>









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High Band-edge

Highest Channel & Modulation : GFSK



High Band-edge

Hopping mode & Modulation : GFSK



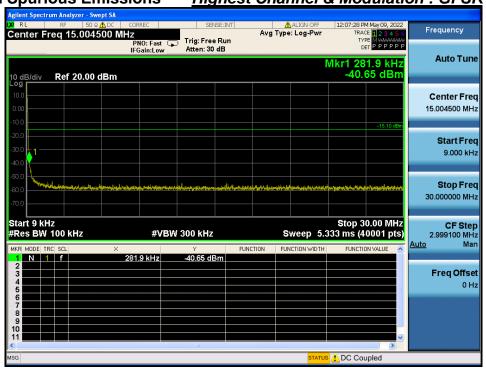
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Conducted Spurious Emissions Highest Channel & Modulation : GFSK

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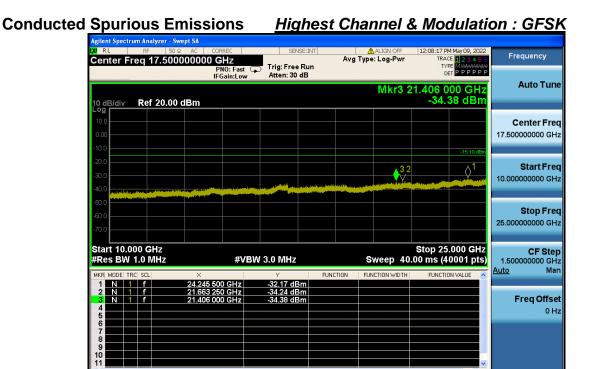












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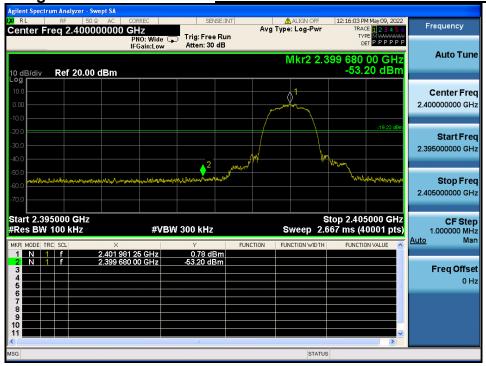






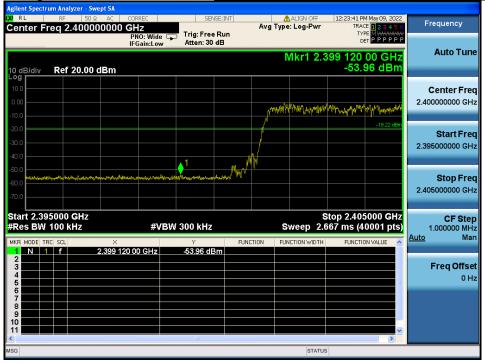
Low Band-edge

Lowest Channel & Modulation : π/4DQPSK



Low Band-edge

Hopping mode & Modulation : π/4DQPSK

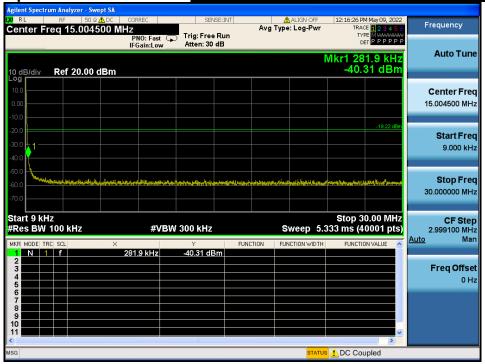


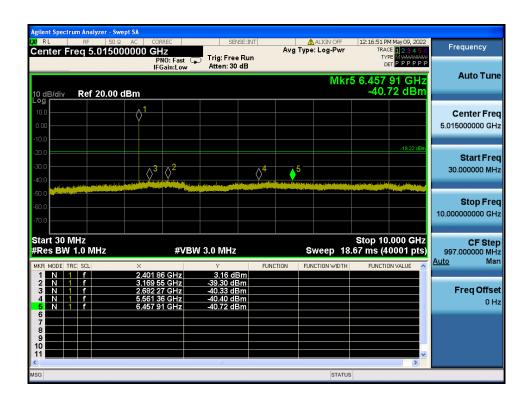
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Conducted Spurious Emissions <u>Lowest Channel & Modulation : π/4DQPSK</u>







Conducted Spurious Emissions <u>Lowest Channel & Modulation : π/4DQPSK</u>

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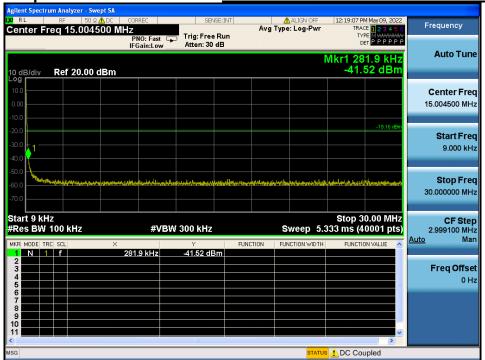
Reference for limit

Middle Channel & Modulation : π/4DQPSK



Report No.: DRTFCC2205-0102

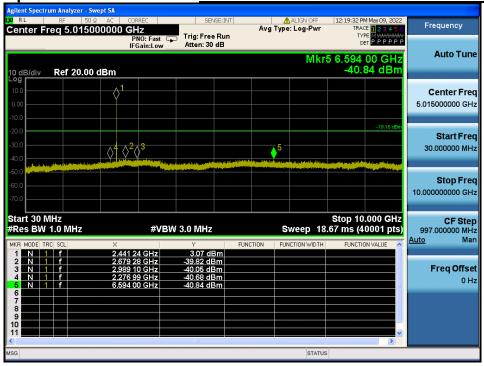
Conducted Spurious Emissions <u>Middle Channel & Modulation : π/4DQPSK</u>







Conducted Spurious Emissions <u>Middle Channel & Modulation : π/4DQPSK</u>





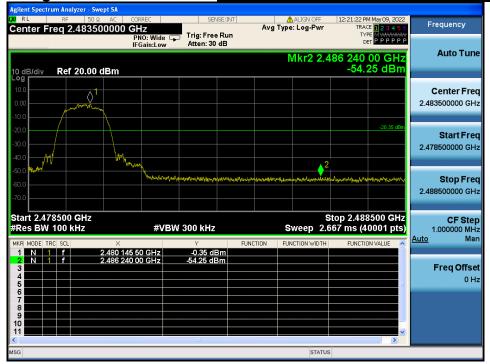






High Band-edge

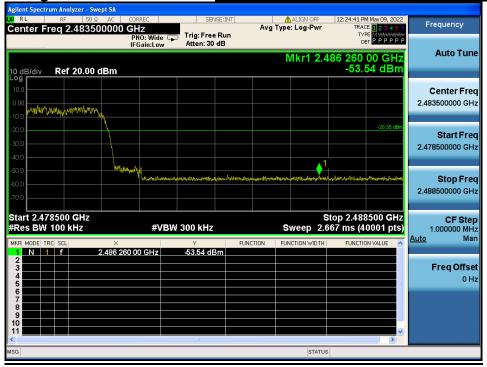
Highest Channel & Modulation : π/4DQPSK



Report No.: DRTFCC2205-0102

High Band-edge

Hopping mode & Modulation : π/4DQPSK



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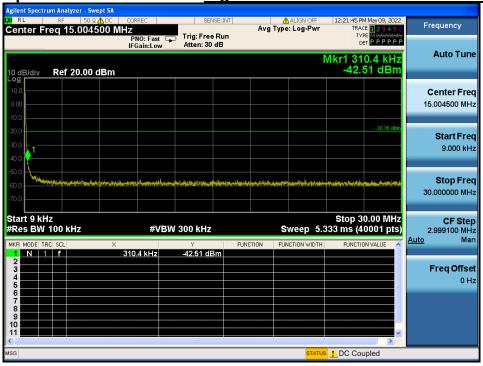


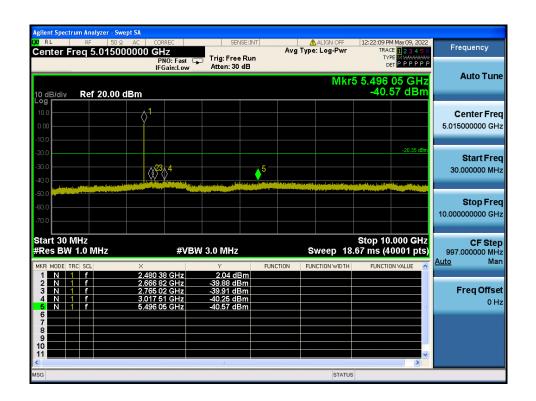




Conducted Spurious Emissions <u>Highest Channel & Modulation : π/4DQPSK</u>

Report No.: DRTFCC2205-0102











Conducted Spurious Emissions <u>Highest Channel & Modulation : π/4DQPSK</u>



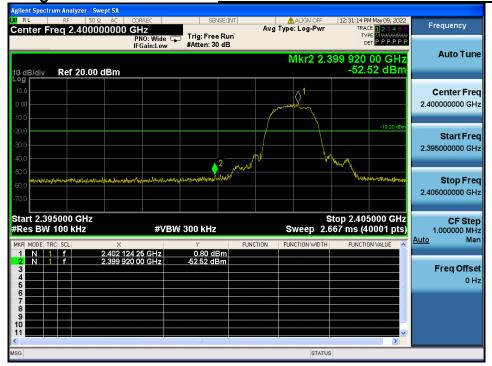




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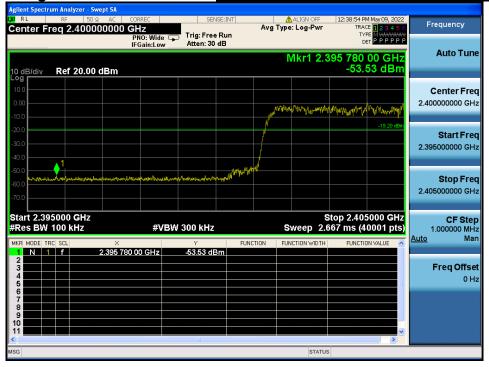
Low Band-edge

Lowest Channel & Modulation: 8DPSK



Low Band-edge

Hopping mode & Modulation: 8DPSK

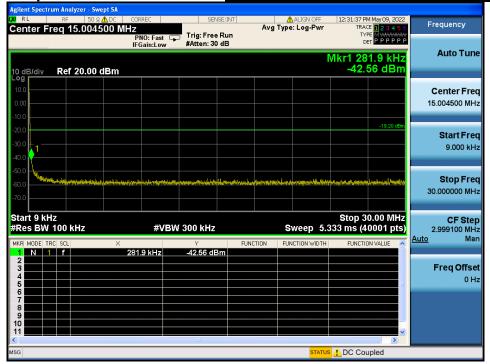






Conducted Spurious Emissions <u>Lowest Channel & Modulation : 8DPSK</u>

Report No.: DRTFCC2205-0102





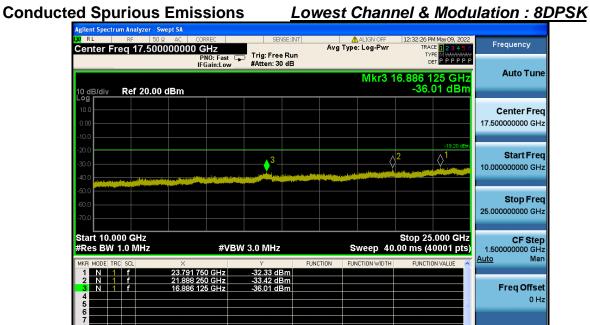




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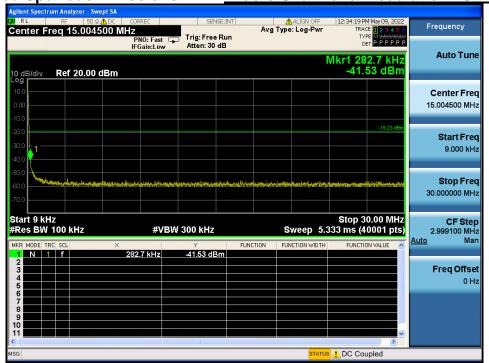


Reference for limit

Middle Channel & Modulation: 8DPSK



Conducted Spurious Emissions <u>Middle Channel & Modulation : 8DPSK</u>

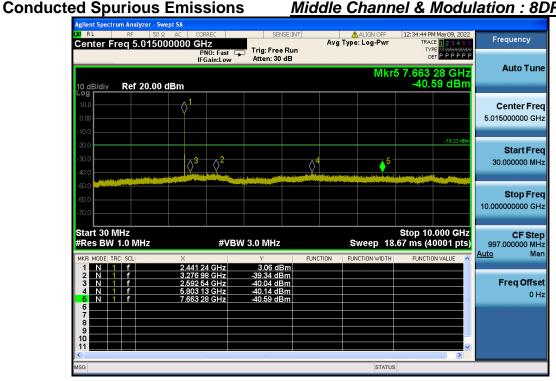


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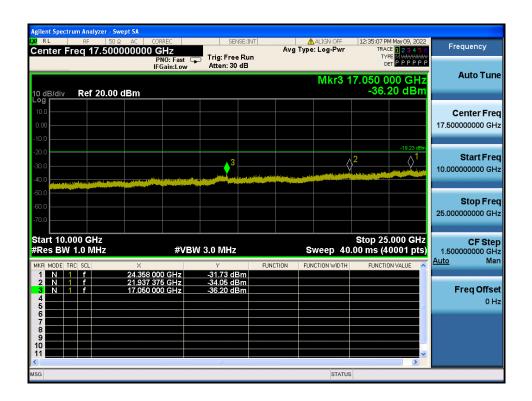




Middle Channel & Modulation: 8DPSK



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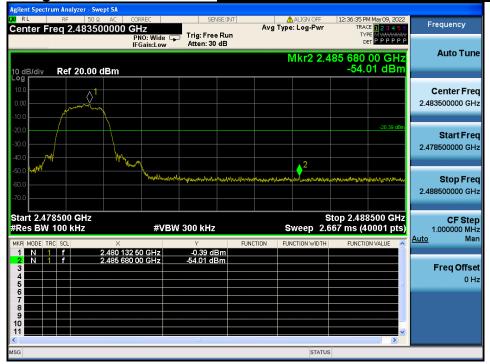






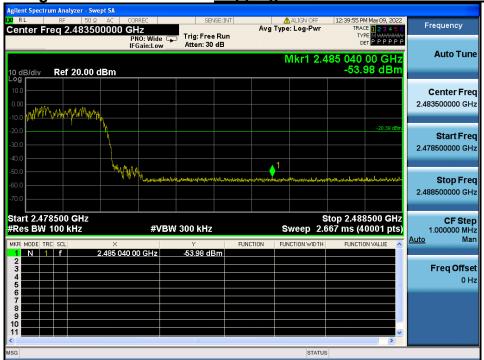


Highest Channel & Modulation: 8DPSK



High Band-edge

Hopping mode & Modulation: 8DPSK

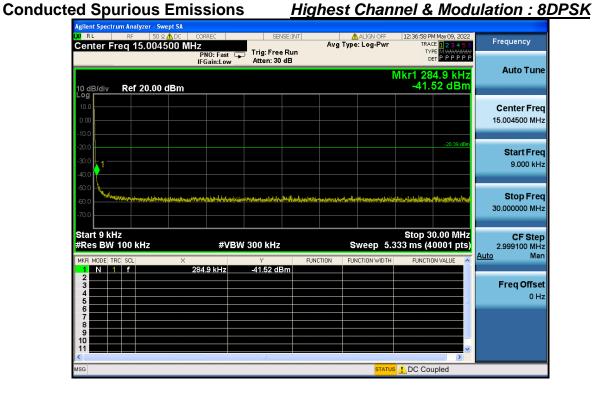


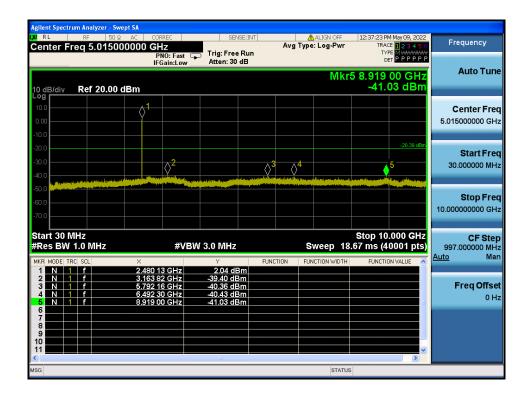
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Report No.: DRTFCC2205-0102



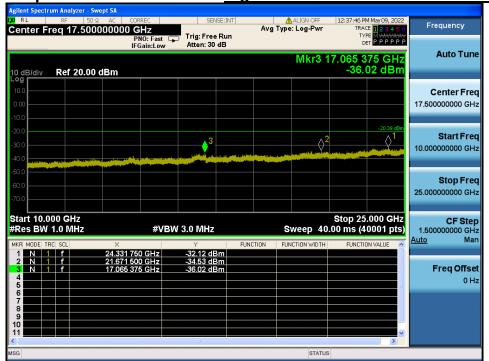




Report No.: DRTFCC2205-0102



Conducted Spurious Emissions <u>Highest Channel & Modulation : 8DPSK</u>



FCC ID: **V2X-PM3P**IC: **10664A-PM3P**

10. AC Power-Line Conducted Emissions

10.1. Test Setup

See test photographs for the actual connections between EUT and support equipment.

10.2. Limit

According to §15.207(a) for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 uH/50 ohm line impedance stabilization network (LISN).

Compliance with the provision of this paragraph shall on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower applies at the boundary between the frequency ranges.

Fraguency Pango (MHz)	Conducted Limit (dBuV)			
Frequency Range (MHz)	Quasi-Peak	Average		
0.15 ~ 0.50	66 to 56 *	56 to 46 *		
0.5 ~ 5.0	56	46		
5 ~ 30	60	50		

^{*} Decreases with the logarithm of the frequency

10.3. Test Procedure

Conducted emissions from the EUT were measured according to the ANSI C63.10.

- 1. The test procedure is performed in a 6.5 m × 3.5 m × 3.5 m (L × W × H) shielded room. The EUT along with its peripherals were placed on a 1.0 m (W) × 1.5 m (L) and 0.8 m in height wooden table and the EUT was adjusted to maintain a 0.4 meter space from a vertical reference plane.
- 2. The EUT was connected to power mains through a line impedance stabilization network (LISN) which provides 50 ohm coupling impedance for measuring instrument and the chassis ground was bounded to the horizontal ground plane of shielded room.
- 3. All peripherals were connected to the second LISN and the chassis ground also bounded to the horizontal ground plane of shielded room.
- 4. The excess power cable between the EUT and the LISN was bundled. The power cables of peripherals were unbundled. All connecting cables of EUT and peripherals were moved to find the maximum emission.



FCC ID: V2X-PM3P

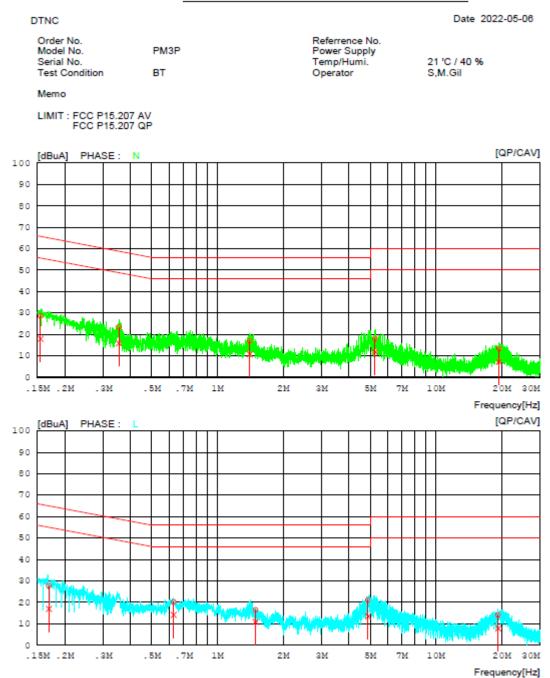
IC: 10664A-PM3P

TDt&C

10.4. Test Results

AC Power-Line Conducted Emissions (Graph) = Modulation : 8DPSK

Results of Conducted Emission



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FCC ID: **V2X-PM3P**IC: **10664A-PM3P**

21 'C / 40 %

S,M.Gil

AC Power-Line Conducted Emissions (List) = Modulation : 8DPSK

Results of Conducted Emission

DTNC Date 2022-05-06

 Order No.
 Referrence No.

 Model No.
 PM3P
 Power Supply

 Serial No.
 Temp/Humi.

 Test Condition
 BT
 Operator

Memo

LIMIT : FCC P15.207 AV FCC P15.207 QP

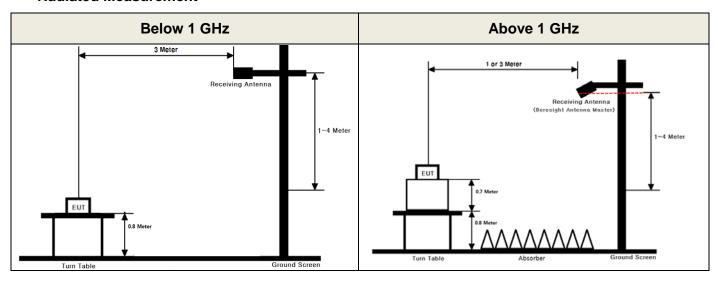
NO	FREQ	REAL	ING	C.FACTOR	RESULT	L	MIT	MARGIN	PHASE
	[MHs]	_	CAV [dBuA]	[dB]	QP CAV [dBuA][dBuA	_	CAV A][dBuA	QP CAV] [dBuA] [dBuA	1]
1	0.15491	18.57	7.98	9.99	28.5617.97	65.73	55.73	37.17 37.76	N
2	0.35429	13.32	5.88	10.01	23.33 15.89	58.86	48.86	35.53 32.97	N
3	1.40624	6.98	0.61	10.14	17.12 10.75	56.00	46.00	38.88 35.25	N
4	5.27406	7.82	1.58	10.21	18.03 11.79	60.00	50.00	41.97 38.21	N
5	19.47592	2.95	-3.22	10.47	13.42 7.25	60.00	50.00	46.58 42.75	N
6	0.16928	17.80	6.93	9.99	27.79 16.92	65.00	55.00	37.21 38.08	L
7	0.63063	10.16	4.10	10.01	20.17 14.11	56.00	46.00	35.83 31.89	L
8	1.49332	6.33	0.76	10.14	16.47 10.90	56.00	46.00	39.5335.10	L
9	4.89778	10.80	3.24	10.21	21.0113.45	56.00	46.00	34.99 32.55	L
10	19.27494	3.61	-2.67	10.47	14.08 7.80	60.00	50.00	45.92 42.20	L



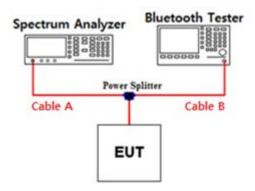
APPENDIX I

Test set up diagrams

Radiated Measurement



Conducted Measurement



Path loss information

Frequency (GHz)	Path Loss (dB)	Frequency (GHz)	Path Loss (dB)	
0.03	6.66	15	6.98	
1	6.75	20	7.18	
2.402 & 2.441 & 2.480	6.79	25	7.28	
5	6.82	-	-	
10	6.86	-	-	

Note 1: The path loss from EUT to Spectrum analyzer was measured and used for test. Path loss (S/A's correction factor) = Cable A + Power Splitter



Detector Mode: PK

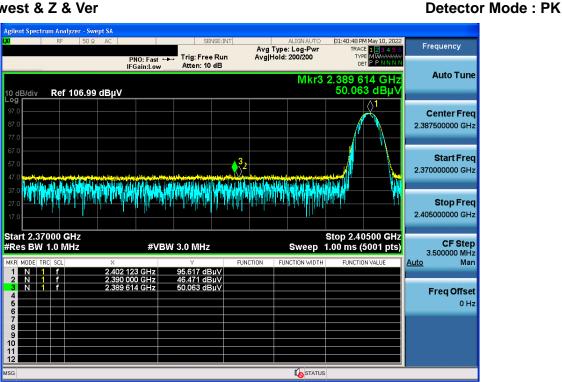




APPENDIX II

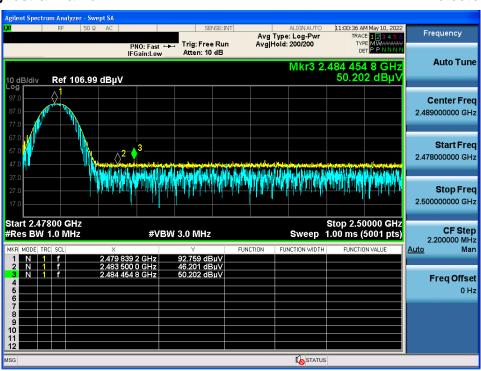
Unwanted Emissions (Radiated) Test Plot

GFSK & Lowest & Z & Ver



Report No.: DRTFCC2205-0102

GFSK & Highest & Z & Ver



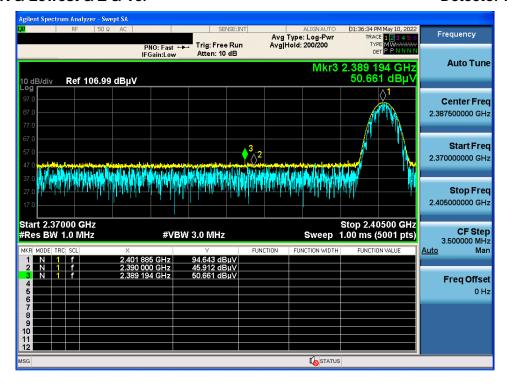
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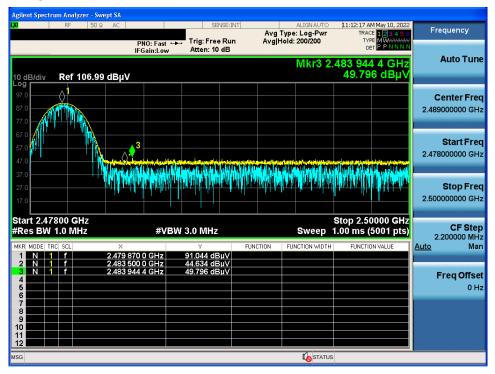
$\pi/4DQPSK \& Lowest \& Z \& Ver$

Detector Mode: PK



π/4DQPSK & Highest & Z & Ver

Detector Mode: PK



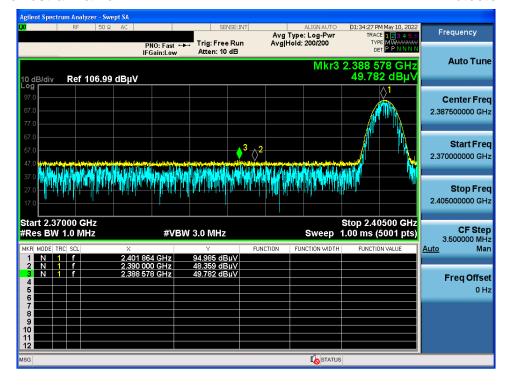
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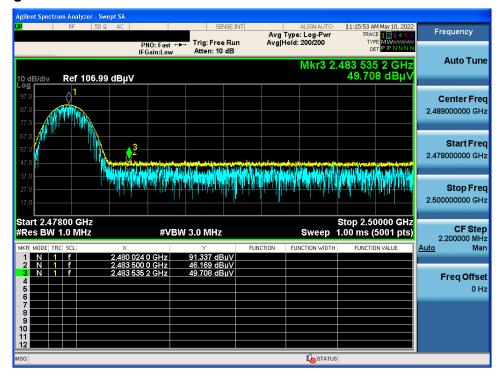
8DPSK & Lowest & Z & Ver

Detector Mode: PK



8DPSK & Highest & Z & Ver

Detector Mode: PK



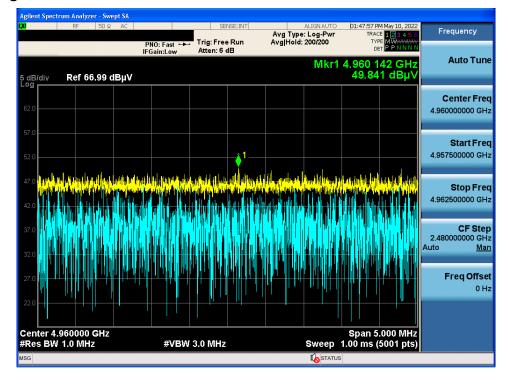




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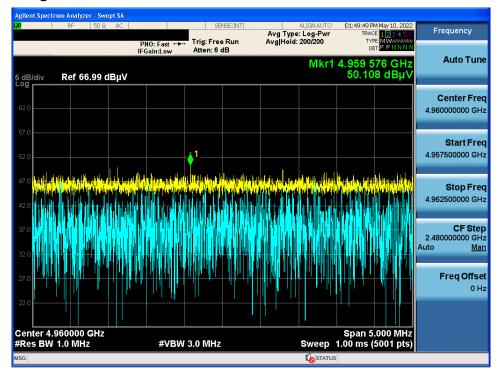
GFSK & Highest & Z & Ver

Detector Mode: PK



$\pi/4DQPSK$ & Highest & Z & Ver

Detector Mode: PK



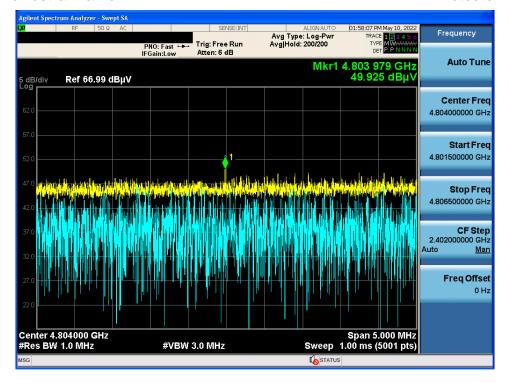
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8DPSK & Lowest & Z & Ver

Detector Mode: PK



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